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(71) Applicant (*for all designated States except US*): AKZO NOBEL N.V. [NL/NL]; Velperweg 76, NL-6824 BM Arnhem (NL).

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(72) Inventor; and

(75) Inventor/Applicant (*for US only*): TELSCHOW, Jeffrey, Earl [US/US]; 47 Sunset Lane, Croton-on Hudson, NY 10520 (US).

(74) Agent: SCHALKWIJK, Pieter, Cornelis; Akzo Nobel N.V., Intellectual Property Dept. (Dept. AIP), P.O. Box 9300, NL-6800 SB Arnhem (NL).

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(54) Title: PURIFICATION/DECOLORIZATION TREATMENT FOR FATTY NITRILES

(57) Abstract: The present invention contemplates a process for the removal of impurities comprising amides, but which may include other impurities such as amines, from a solution of the nitriles and impurities. A reaction mixture is first formed and to that reaction mixture, 0.5 to 3wt% of approximately 60% H<sub>2</sub>SO<sub>4</sub> is stirred in at room temperature and atmospheric pressure for a time effective for the removal of the amide impurities. Typically, after about 30 minutes, the amide impurity is removed into the lower, dark acid layer, probably as a salt. The remaining nitrile, after decantation or filtration, is still colored but is substantially free of amide. In a to second step, at room temperature or at a temperature of up to ~80°C, color can be removed from the nitrile by stirring the acid-washed nitrile with 0.5-5 wt% of clay (bentonite), charcoal, zeolitic type materials, mixtures thereof and the like.

## INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/120005 A1 (DANCER ROBERT ET AL) 29 August 2002 (2002-08-29) paragraph '0013! - paragraph '0024! example 2 claim 1 ----	1-9
A	US 4 575 434 A (PARK JOHN Y G ET AL) 11 March 1986 (1986-03-11) column 2, line 24 - line 56 column 4, line 46 - line 54 -----	1-20
A	GB 526 496 A (DU PONT) 19 September 1940 (1940-09-19) page 1, line 78 - line 90 -----	1-20

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Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax. (+31-70) 340-3016

Authorized officer

O'Sullivan, P

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Information on patent family members

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